

A CONFIGURABLE INTEGRATED CIRCUIT FOR USE IN A MULTI-FUNCTION
HANDHELD DEVICE

ABSTRACT OF THE DISCLOSURE

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A configurable integrated circuit includes at least one general purpose input/output (GPIO) interface module, a first functional module, and a second functional module. The GPIO interface module includes a plurality of GPIO cells, wherein each of the GPIO cells is operably coupled to a corresponding pin of the configurable integrated circuit. When the configurable integrated circuit is in a first functional mode, at least one of the GPIO cells is operably coupled to its corresponding pin such that the corresponding pin functions as a digital input pin for the first functional module. When the configurable integrated circuit is in a second functional mode, at least one of the GPIO cells is operably coupled to its corresponding pin such that the corresponding pin functions as a digital output pin for the second functional module.

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